

**4-Aminoquinazoline derivatives, and their use as medicine.**

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EC Classification: C07D401/04, C07D401/06, C07D401/14, C07D405/04, C07D409/04, C07D409/14, C07D521/00B1C8, C07D521/00B2H, C07F7/08C6BEquivalents: CA2100626, JP2657760B2, JP2923742B2, ☐ JP6192235, ☐ JP8099962**Abstract**

The compounds of the formula: wherein R<1> is H or alkyl; Y is bond or alkylene; A is (i) -CyA-(R<2>), (ii) -O-R<0> or -S(O)p-R<0> or (iii) -NR<1><6>R<1><7>; CyA is (1) 3-7 membered monocyclic carbocyclic ring, (2) 4-7 membered monocyclic hetero ring containing as hetero atoms, one N atom, one N and one O atoms, two N and one O atoms, or one N and two O atoms, (3) 4-7 membered monocyclic hetero ring containing as hetero atoms, 1 or 2 O or S atoms; R<2> is (1) H, (2) alkyl, (3) alkoxy, (4) -COOR<5>, in which R<5> is H or alkyl, (5) -NR<6>R<7>, (6) -SO<sub>2</sub>NR<6>R<7>, (7) halogen, (8) CF<sub>3</sub>, (9) NO<sub>2</sub> or (10) CF<sub>3</sub>O; Z is bond, methylene, ethylene, vinylene or ethynylene; R<3> is H, alkyl, alkoxy, halogen or CF<sub>3</sub>; and acid addition salts thereof, salts thereof, and hydrates thereof; have inhibitory effect on cGMP-PDE, or additionally on TXA<sub>2</sub> synthetase.

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— Please see exhibit 34 —